MULTIPLE COMPACT DISC PLAYER

DP-R3080/R4080

SERVICE MANUAL

KENWOOD

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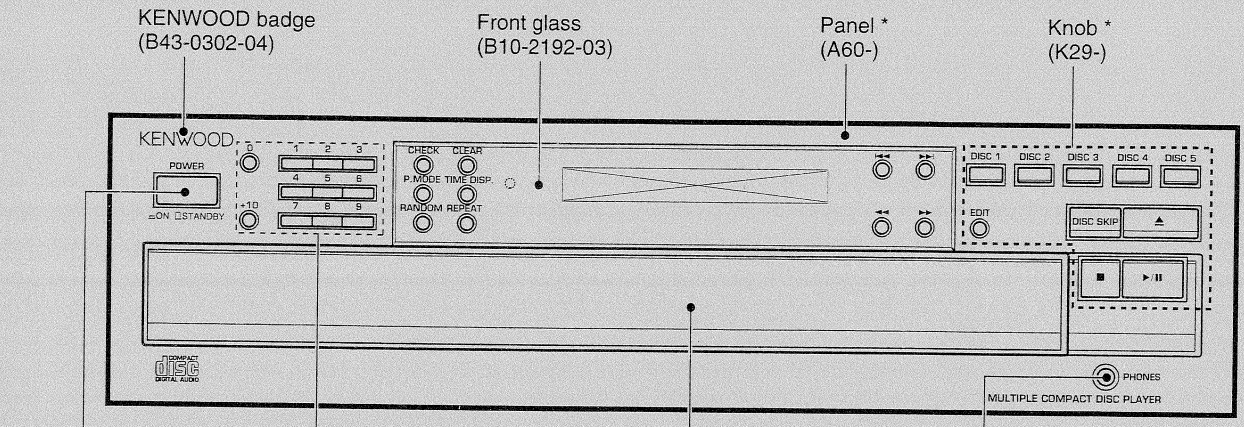

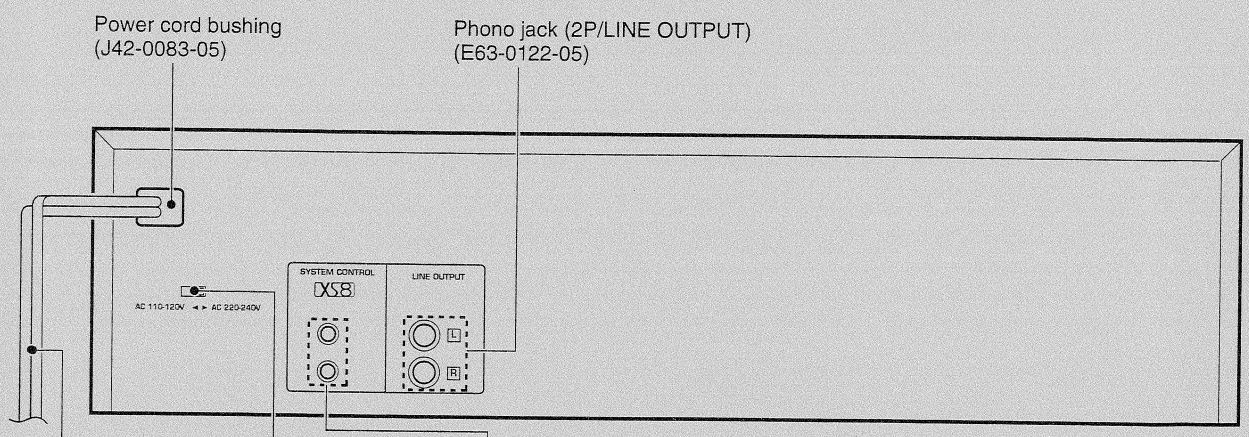

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated.
AVOID DIRECT EXPOSURE TO BEAM.

Illust is DP-R4080.

*** Refer to parts list on page 18.**

DP-R3080/R4080

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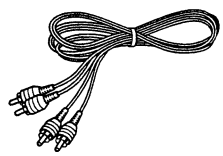
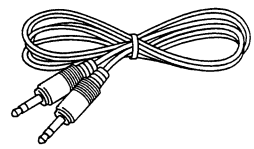
Accessories

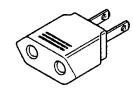
Audio cord (1)
(E30-0505-05)



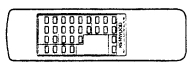
System control cord (1)
(E30-2733-05)



AC plug adaptor (1)
(E03-0115-05)
M type only

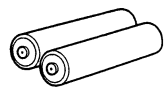


Remote control unit (1)
(A70-1048-05: RC-P0703)
DP-R4080 only



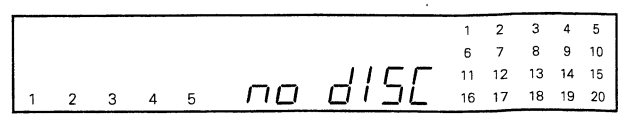
Battery cover: (A09-0146-08)

Batteries (R6/AA) (2)
DP-R4080 only

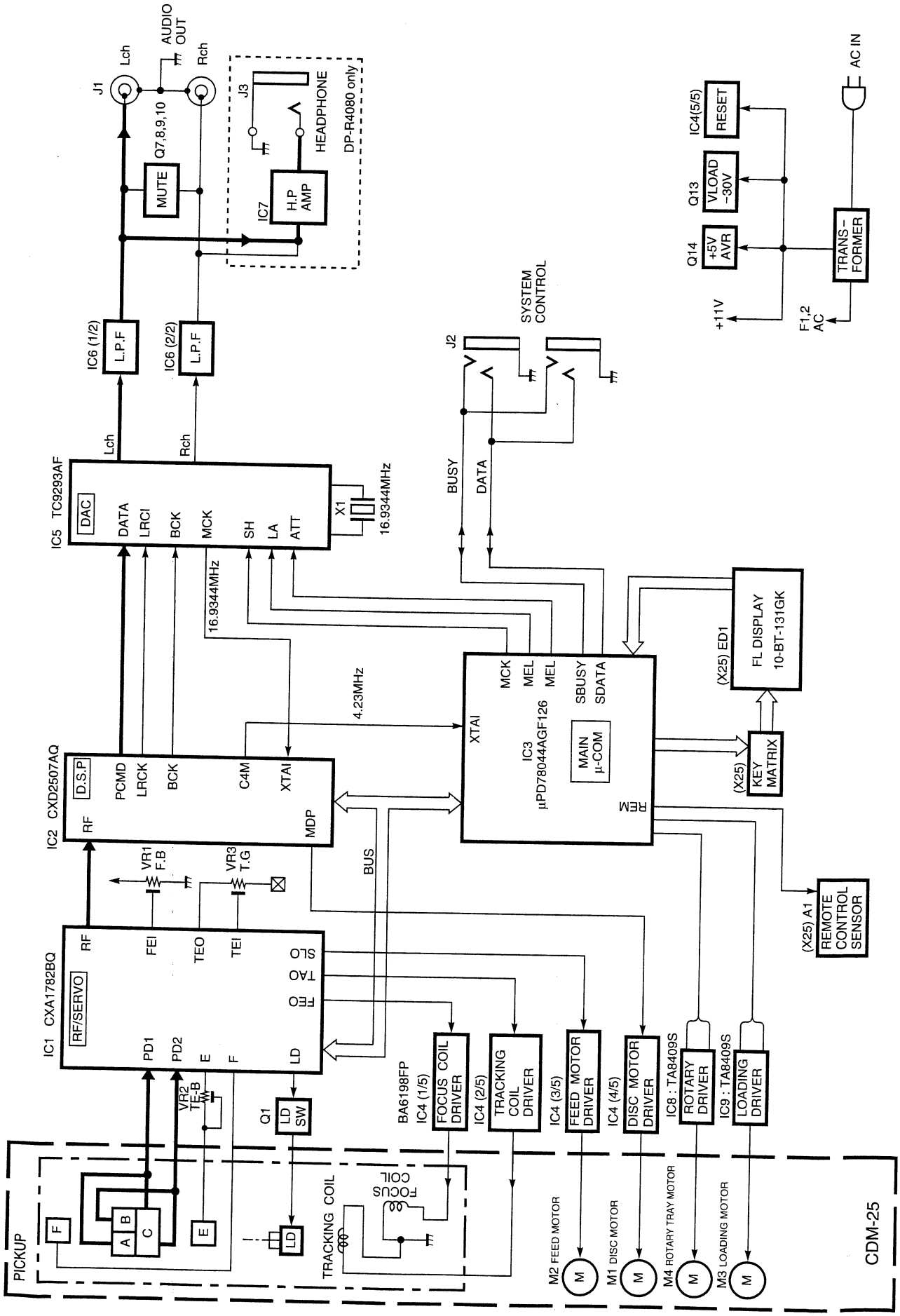


Caution

Note related to transportation and movement
Before transporting or moving this unit, carry out the following operations.
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears. Wait further a few seconds.
3. Turn the power OFF.



BLOCK DIAGRAM

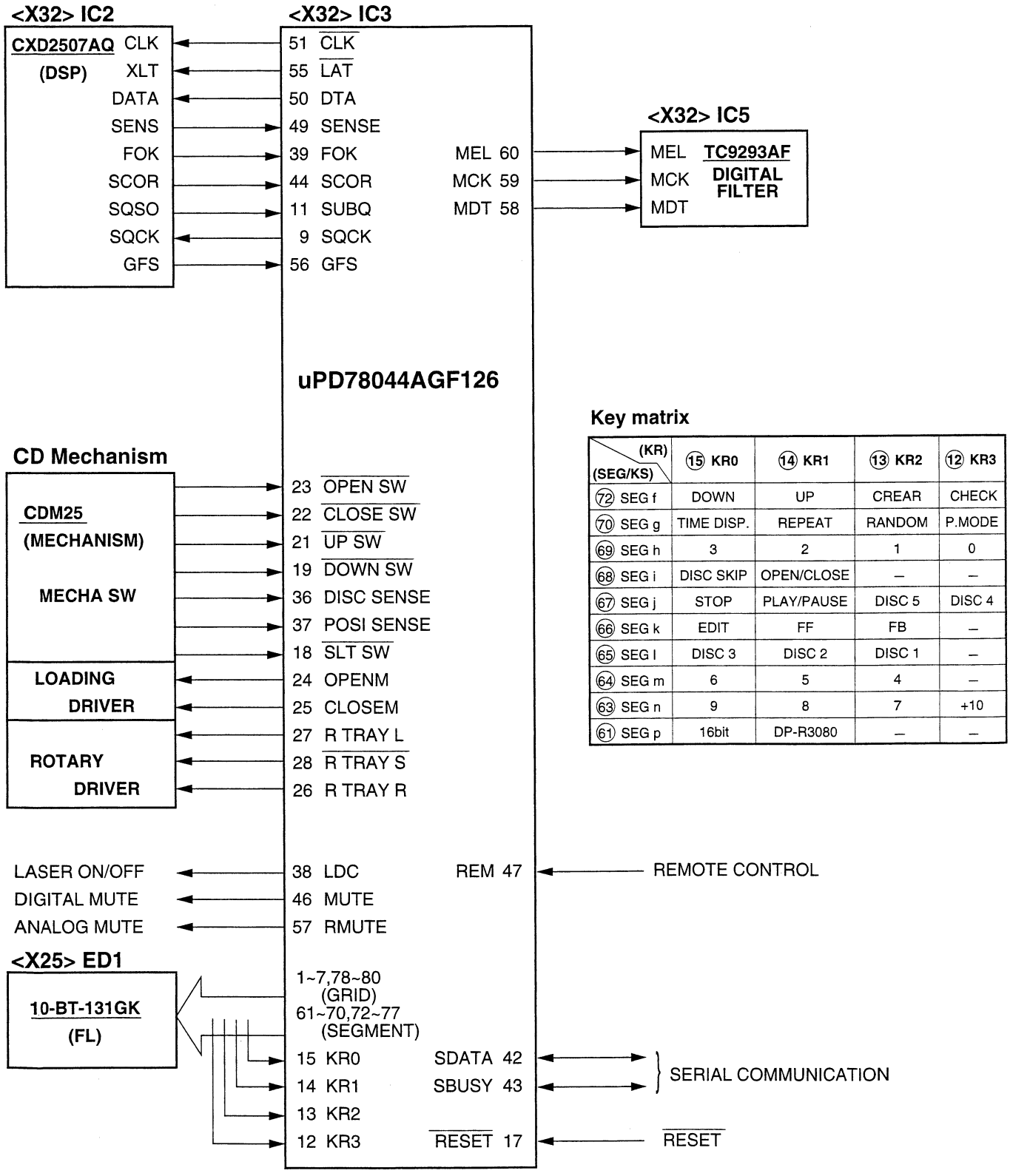


DP-R3080/R4080

CIRCUIT DESCRIPTION

1. Main Microprocessor : UPD78044AGF126(X32 : IC3)

1-1. Microprocessor periphery block diagram



Key matrix

(KR) / (SEG/KS)	⑮ KR0	⑭ KR1	⑬ KR2	⑫ KR3
⑦② SEG f	DOWN	UP	CREAR	CHECK
⑦⓪ SEG g	TIME DISP.	REPEAT	RANDOM	P.MODE
⑥⑨ SEG h	3	2	1	0
⑥⑧ SEG i	DISC SKIP	OPEN/CLOSE	–	–
⑥⑦ SEG j	STOP	PLAY/PAUSE	DISC 5	DISC 4
⑥⑥ SEG k	EDIT	FF	FB	–
⑥⑤ SEG l	DISC 3	DISC 2	DISC 1	–
⑥④ SEG m	6	5	4	–
⑥③ SEG n	9	8	7	+10
⑥① SEG p	16bit	DP-R3080	–	–

CIRCUIT DESCRIPTION

1-2. Pin description

Pin No.	Name	I/O	Function	
1~7	7G~1G	O	Display digit control (Grid7~Grid1)	
8	VDD		Power supply (+5V)	
9	SQCK	O	Q data reading clock output	
10		O	Unused	
11	SUBQ	I	Q data input	
12~15	KR3~KR0	I	Key return 3~0	
16		I	Unused	
17	$\overline{\text{RESET}}$	I	Reset input	L : RESET
18	$\overline{\text{SLT SW}}$	I	CDM25 start limit switch input	L : SW ON
19	$\overline{\text{DOWN SW}}$	I	CDM25 mechanism down switch input	L : SW ON
20	AVSS	I	Unused (connected to VSS)	
21	$\overline{\text{UP SW}}$	I	CDM25 mechanism up switch input	L : SW ON
22	$\overline{\text{CLOSE SW}}$	I	CDM25 close switch input	L : SW ON
23	$\overline{\text{OPEN SW}}$	I	CDM25 open switch input	L : SW ON
24	OPEN M	O	Open motor control	H : ACTIVE
25	CLOSE M	O	Close motor control	H : ACTIVE
26	RTRAY R	O	Rotary tray motor control (CW)	H : ACTIVE
27	RTRAY L	O	Rotary tray motor control (CCW)	H : ACTIVE
28	$\overline{\text{RTRAY S}}$	O	Rotary tray motor control (deceleration)	L : ACTIVE
29	AVDD		Unused (connected to VDD)	
30	AVREF		Unused (connected to VSS)	
31		I	Unused	
32			Unused (OPEN)	
33	VSS		GND	
34	X1	I	System clock input	
35	X2		Unused	
36	DSENSE	I	CDM25 disc sensor detection	
37	PSENSE	I	CDM25 position sensor detection	
38	$\overline{\text{LDC}}$	O	Laser signal output	L : LASER ON
39	FOK	I	FOK signal input	H : FOCUS ON
40,41		I	Unused	
42	SDATA	I/O	System serial data signal input output	
43	BUSY	I/O	System serial busy signal input output	
44	SCOR	I	Sub code frame sync detection	
45	MON	O	Focus drug countermeasure circuit control	
46	MUTG	O	Digital mute control	H : MUTE ON
47	REM	I	Remote control signal input	
48			Unused	
49	SENSE	I	Sense input from CXD2507AQ	
50	DTA	O	Data output for CXD2507AQ	
51	CLK	O	Clock output for CXD2507AQ	
52	VDD		Power supply (+5V)	
53,54		I	Unused	
55	LAT	O	Latch output for CXD2507AQ	
56	GFS	I	Frame signal input	
57	$\overline{\text{RMUTE}}$	O	Analog mute control	L : MUTE ON
58	MDT	O	Attenuater data output	
59	MCK	O	Attenuater clock output	
60	MEL	O	Attenuater latch output	
61~70	Sa~Sj/KS	O	Display segment control (Seg a-Seg j) / Key scan	
71	VLOAD		Display drive negative power supply (-35V)	
72~77	Sk~Sp/KS	O	Display segment control (Seg k-Seg p) / Key scan	
78~80	10G-8G	O	Display digit control (Grid10-Grid8)	

CIRCUIT DESCRIPTION

2. Test mode

2-1. Setting the test mode

- The microprocessor built in the unit can be put to TEST MODE by just pressing the TIME DISP. key when set to power on.
- DP-R series is available to set to each test mode by each key.

2-2. Key vs Function in test mode

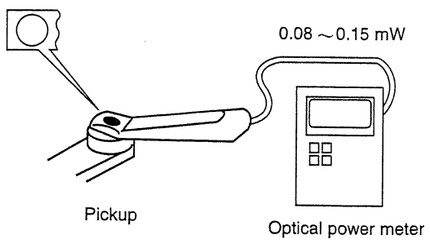
Step	Key name	Display	Description	
1	PLAY/PAUSE (Cyclic)	03	(1) Focus servo .....ON (2) Tracking servo .....OFF (3) Feed servo .....OFF	TE-B adjustment
		05	(1) Focus servo .....ON (2) Tracking servo .....ON (3) Feed servo .....ON	F-GAIN/T-GAIN FE-B adjustment
2	UP		Display goes on	
3	DOWN		Display goes off	
4	DISC1		Search the position of No. 1	
5	STOP	00	(1) Focus servo .....OFF (2) Tracking servo .....OFF (3) Feed servo .....OFF	Waiting key input
6	DISC2	-	Canceled Test mode	Normal mode
7	DISC3	01	Canceled Test mode, then 01 PLAY	Normal mode

ADJUSTMENT

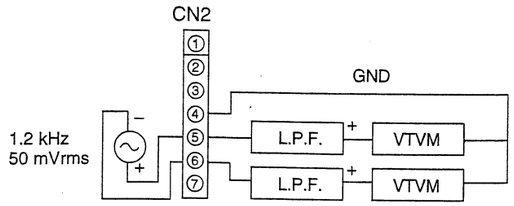
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	PLAYER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Open the tray (Normal mode), then turn the power off.							
1	LASER POWER	–	Apply the sensor section of optical power meter on the pickup lens.	While pressing the TIME DISP. key, turn the AC ON. (Test mode) Press the PLAY/PAUSE key, then confirm that the display is "03".	–	On the power from 0.08 to 0.15 mW, when the diffraction grating is correctly aligned with the RF level of 1.0 Vp-p or more.	(a)
1. Press the STOP key. 2. Press the OPEN key. 3. Load a disc, then press the CLOSE key. 4. Press the PLAY key. 5. Press the OPEN key to open the tray. 6. Turn the power off. (Player stops as the tray is opened while the disc clumped.) 7. While pressing the TIME DISP. key, turn the power ON to enter the Test mode.							
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF (CN2 pin 1) CH2 : TE (CN2 pin 6)	Press the PLAY/PAUSE key, then confirm that the display is "03".	TE BALANCE VR2	Symmetry between upper and lower patterns	(c)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1 : RF (CN2 pin 1) CH2 : TE (CN2 pin 6)	Press the PLAY/PAUSE key, then confirm that the display is "05".	FE BALANCE VR1	Optimum eye pattern	(b) or (d)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.2 kHz, 50mVrms to CN2 pin 5-6.	Connect a LPF to CN2 pin 5-6 to which you connect an oscilloscope or AC voltmeters.	Press the PLAY/PAUSE key, then confirm that the display is "05".	TRACKING GAIN VR3	Two VTVMs should read the same value.	(e)

Note:
Type 4 disc : SONY YEDS-18 Test Disc or equivalent.
LPF: Around 47 kΩ+ 390 pF or so.
Step 1~4 are in Test Mode.

(a) Laser power



(e) Tracking gain



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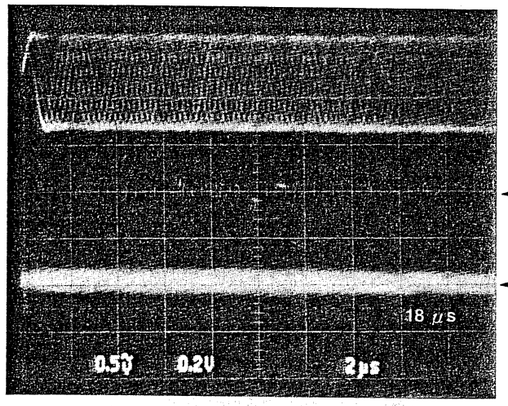
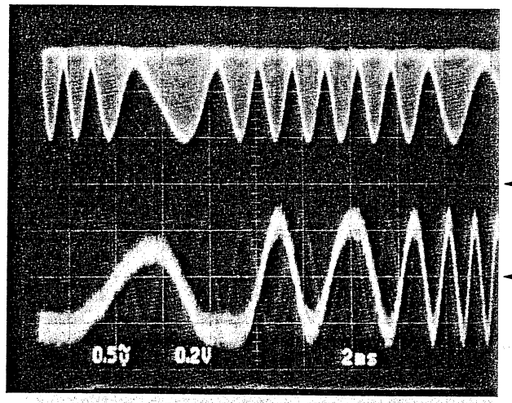
ADJUSTMENT

FIG. (b)



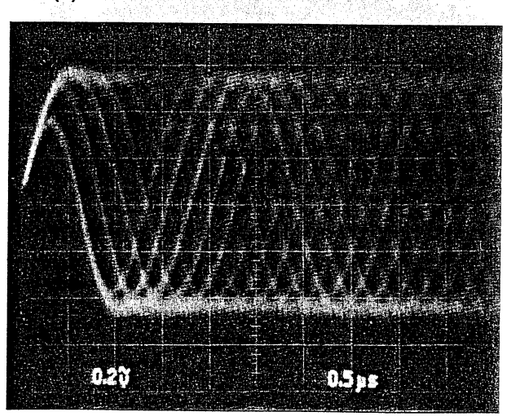
- RF signal and TE signal in test mode (PLAY).
- If the diffraction grating has been adjusted correctly, the influence of triggering is observed on the TE waveform of approx. 18 μs from RF signal trigger point, in the form of a projection.

FIG. (c)



- RF signal and TE signal in test mode (Focusing servo ON / Tracking servo OFF). (Disc Type 4)
- Adjust TE signal so that the waveform is symmetrical in relation to VC. (TE BALANCE)

FIG. (d)

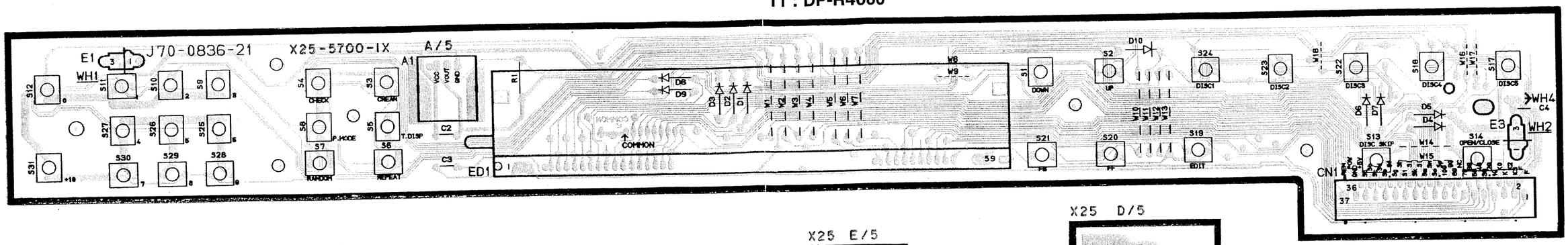


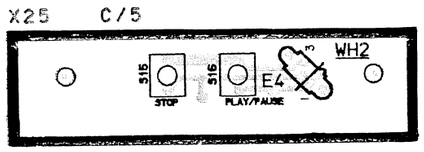
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

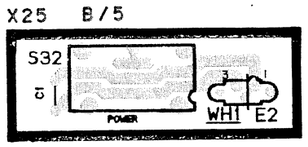
  (FE BALANCE)

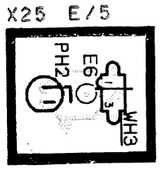
PC BOARD (Component side view)

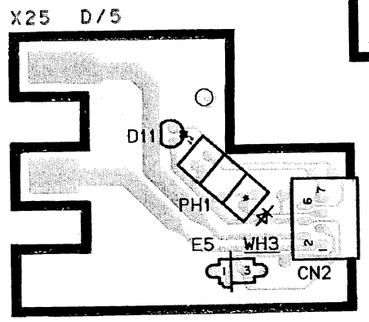
DISPLAY UNIT (X25-5700-XX) **10 : DP-R3080**
11 : DP-R4080

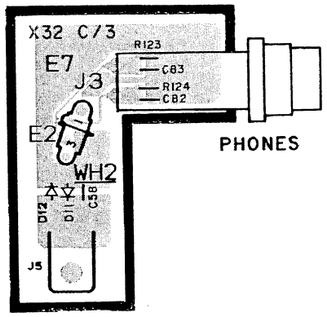




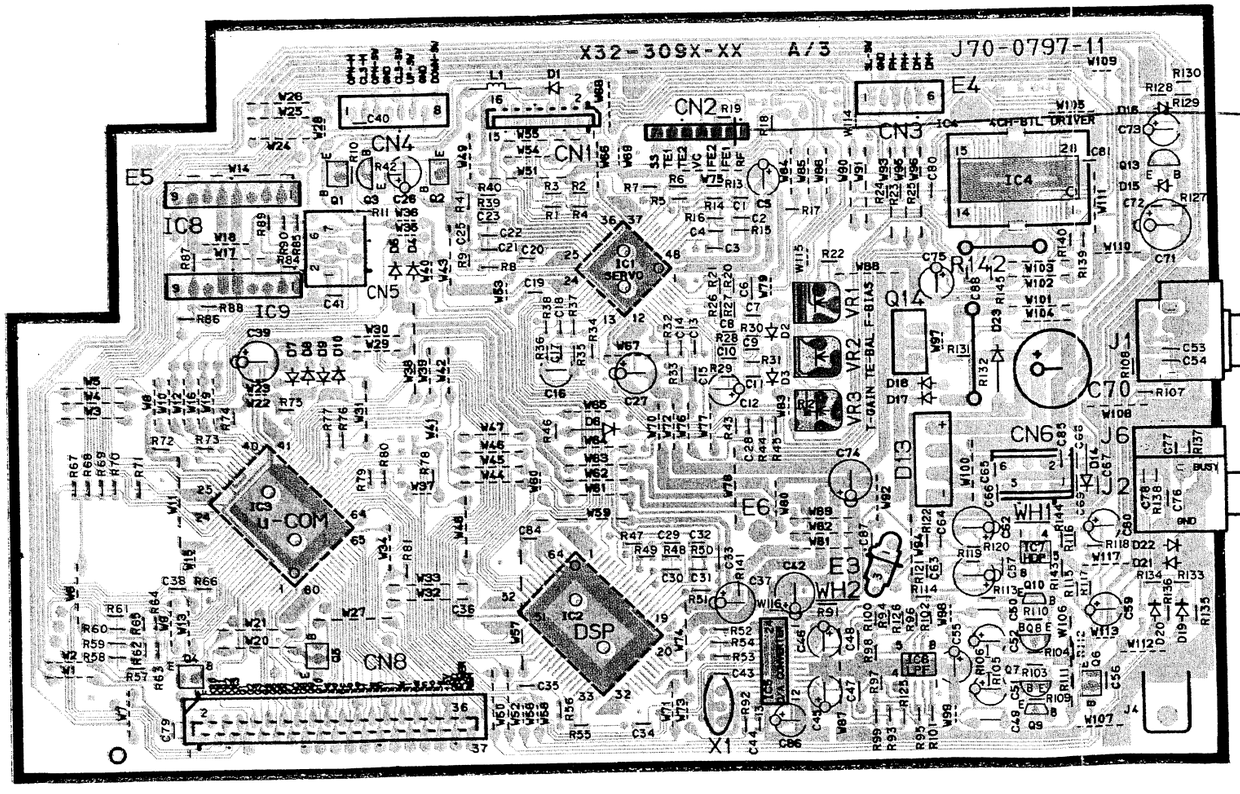




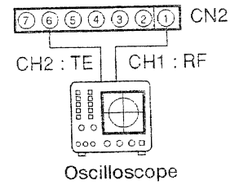




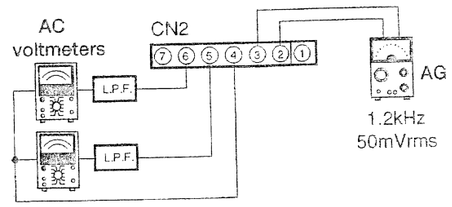
CD PLAYER UNIT (X32-3090-XX) **10 : DP-R3080 K,P,X,E** **21 : DP-R3080 M,Y**
11 : DP-R4080 K,P,X,T,E **22 : DP-R4080 M,Y**



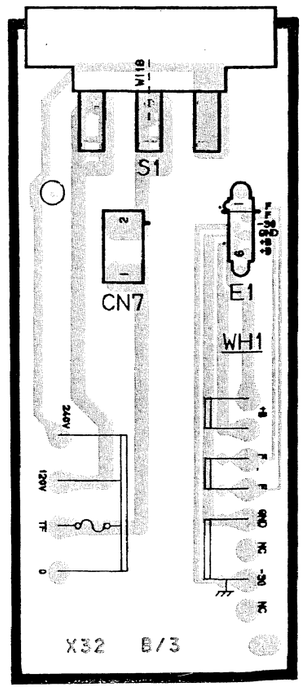
(c) Tracking error balance : Symmetry between upper patterns.
(b or d) Focus error balance : Optimum eye pattern.



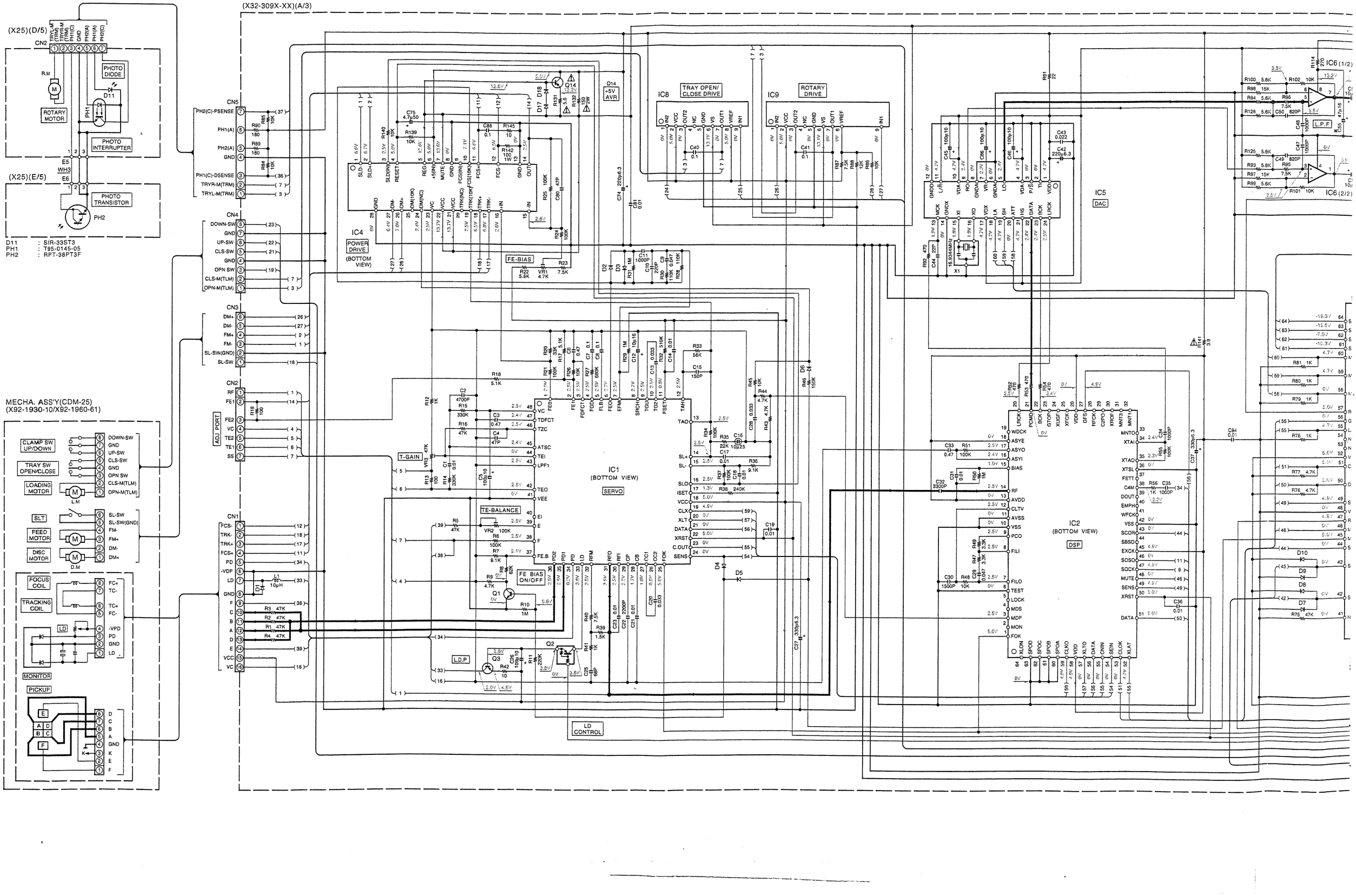
(e) Tracking gain :
Two VTVMs should read the same value.

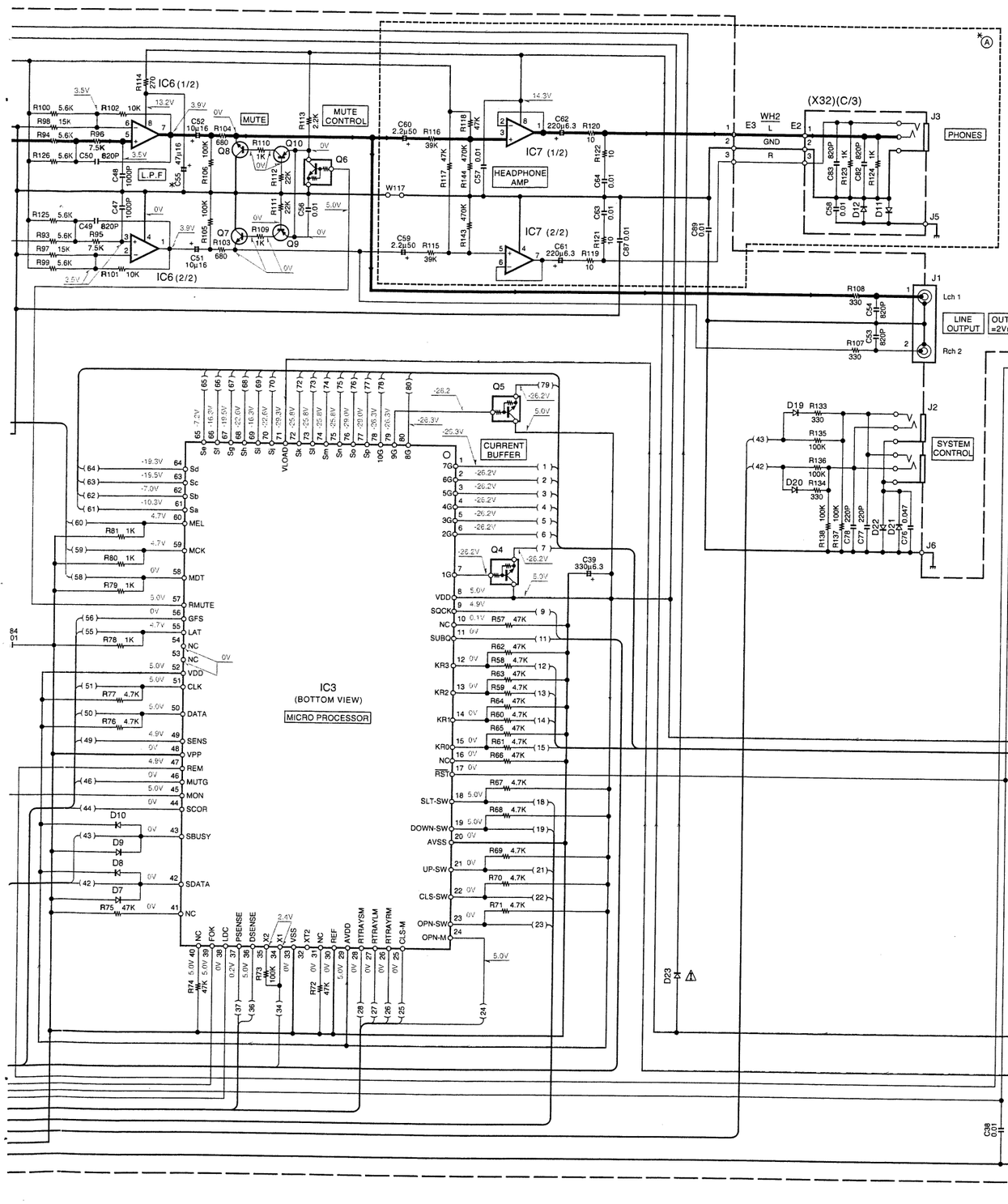


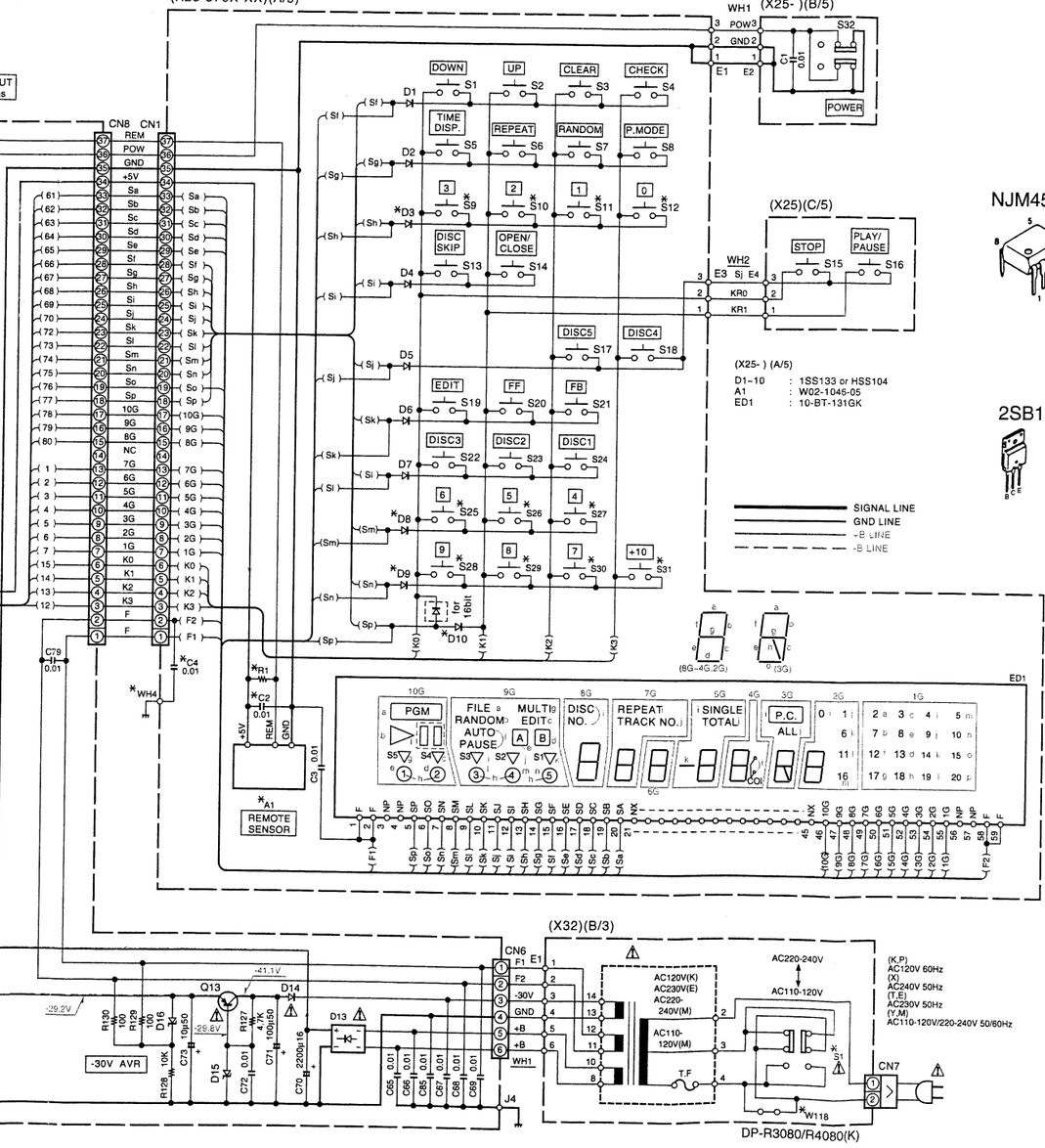
AC220-240V↔ AC110-120V



Refer to the schematic diagram for the values of resistors and capacitors.


(X32-309X-XX)(A/3)
(X25)(D/5)
CN2
TRY(-M)(TRM)
TRY(+M)(TRM)
PH1(C)
GND
PH2(A)
PH1(A)
PH2(C)
R.M
PHOTO DIODE
D11
ROTARY MOTOR
PH1
PHOTO INTERRUPTER
E5
WH3
E6
(X25)(E/5)
PHOTO TRANSISTOR
PH2
D11 : SIR-33ST3
PH1 : T95-0145-05
PH2 : RPT-38PT3F
MECHA. ASS'Y(CDM-25)
(X92-1930-10/X92-1960-61)
CLAMP SW UP/DOWN
TRAY SW OPEN/CLOSE
LOADING MOTOR
L.M
SLT
FEED MOTOR
DISC MOTOR
D.M
FOCUS COIL
TRACKING COIL
LD
MONITOR
PICKUP
DOWN-SW
GND
UP-SW
CLS-SW
GND
OPN SW
CLS-M(TLM)
OPN-M(TLM)
SL-SW
SL-SW(GND)
FM-
FM+
DM-
DM+
FC+
TC-
TC+
FC-
-VPD
PD
GND
LD
D
C
B
A
GND
K
E
F
CN5
PH2(C)-PSENSE
PH1(A)
PH2(A)
GND
PH1(C)-DSENSE
TRYR-M(TRM)
TRYL-M(TRM)
CN4
DOWN-SW
GND
UP-SW
CLS-SW
GND
OPN SW
CLS-M(TLM)
OPN-M(TLM)
CN3
DM+
DM-
FM+
FM-
SL-SW(GND)
SL-SW
CN2
RF
FE1
FE2
VC
TE2
TE1
SS
ADJ PORT
CN1
FCS-
TRK-
TRK+
FCS+
PD
-VDP
LD
GND
F
C
B
A
D
E
VCC
VC
IC4
POWER DRIVE
(BOTTOM VIEW)
IC8
TRAY OPEN/ CLOSE DRIVE
IC9
ROTARY DRIVE
Q14
+5V AVR
FE-BIAS
IC1
(BOTTOM VIEW)
SERVO
T-GAIN
TE-BALANCE
FE BIAS ON/OFF
LD.P
LD CONTROL
IC5
DAC
IC6 (1/2)
IC6 (2/2)
L.P.F
IC2
(BOTTOM VIEW)
DSP
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
Q1
Q2
Q3
X1
16.9344MHz





DP-R3080

DESTINATION		UNIT No.	Ⓐ	C55	S1	W118
COUNTRY	ABB					
U.S.A.	K	X32-3090-10	NO	NO	NO	YES
CANADA	P					
AUSTRALIA	X					
EUROPE	E					
GENERAL MARKET	M	X32-3090-21	NO	NO	YES	NO

DP-R4080

DESTINATION		UNIT No.	Ⓐ	C55	S1	W118
COUNTRY	ABB					
U.S.A.	K	X32-3090-11	YES	YES	NO	YES
CANADA	P					
AUSTRALIA	X					
U.K.	T					
EUROPE	E					
PX	Y					
GENERAL MARKET	M	X32-3090-22	YES	YES	YES	NO

(X32-)

IC1	: CXA1782BQ✻1	Q1	: 2SC2785(F,E) or 2SC1740S(Q,R)	D1~12,17~22	: 1SS133 or HSS104
IC2	: CXD2507AQ✻1	Q2	: UN4112 or DTA124ES	D13	: KBP02ML-6127
IC3	: μPD78044AGF126	Q3,13	: 2SA954(L,K)	D14,23	: S5688B or 1SR139-100
IC4	: BA6198FP	Q4,5	: UN4219 or DTC113ZS	D15	: UZ-30BS or MTZJ30(B)
IC5	: TC9293AF	Q6	: UN4212 or DTC124ES	D16	: UZ-5.6BSB or MTZJ5.6(B)
IC6	: NJM2115M	Q7,8	: 2SC2878(B)		
IC7	: NJM4580E	Q9,10	: 2SA1309A(Q,R) or 2SA1048(Y,GR)		
IC8,9	: TA8409S	Q14	: 2SB1565(E,F) or 2SB1375		

DP-R3080/R4080

MODEL NAME	UNIT No.	R1	C2,4	D3	D8,9	D10	S9-12	S25-31	A1	WH4
DP-R3080	X25-5700-10	YES	NO	NO	NO	YES	NO	NO	NO	NO
DP-R4080	X25-5700-11	NO	YES	YES	YES	NO	YES	YES	YES	YES

(X25-) (A/5)

D1~10	:	1SS133 or HSS104
A1	:	W02-1045-05
ED1	:	10-BT-131GK

CAUTION: For continu components only with (refer to parts list). ⚠ For continued protectio with same type and ra electric shock, leakage-c shall be carried out (exp from the supply circuit) the customer.

The DC voltage is an a impedance type voltme vary depending on the the product. Refer to otherwise specified; The measured at the momen

NJM4580E

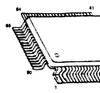
DTA124ES
DTC124ES
UN4112
2SA1048
2SC1740S

2SB1375

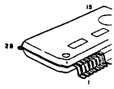
2SA954
2SC2878

NJM2115M

UPD78044AC



BA6198FP



Y22-4400-10

DP-F
K

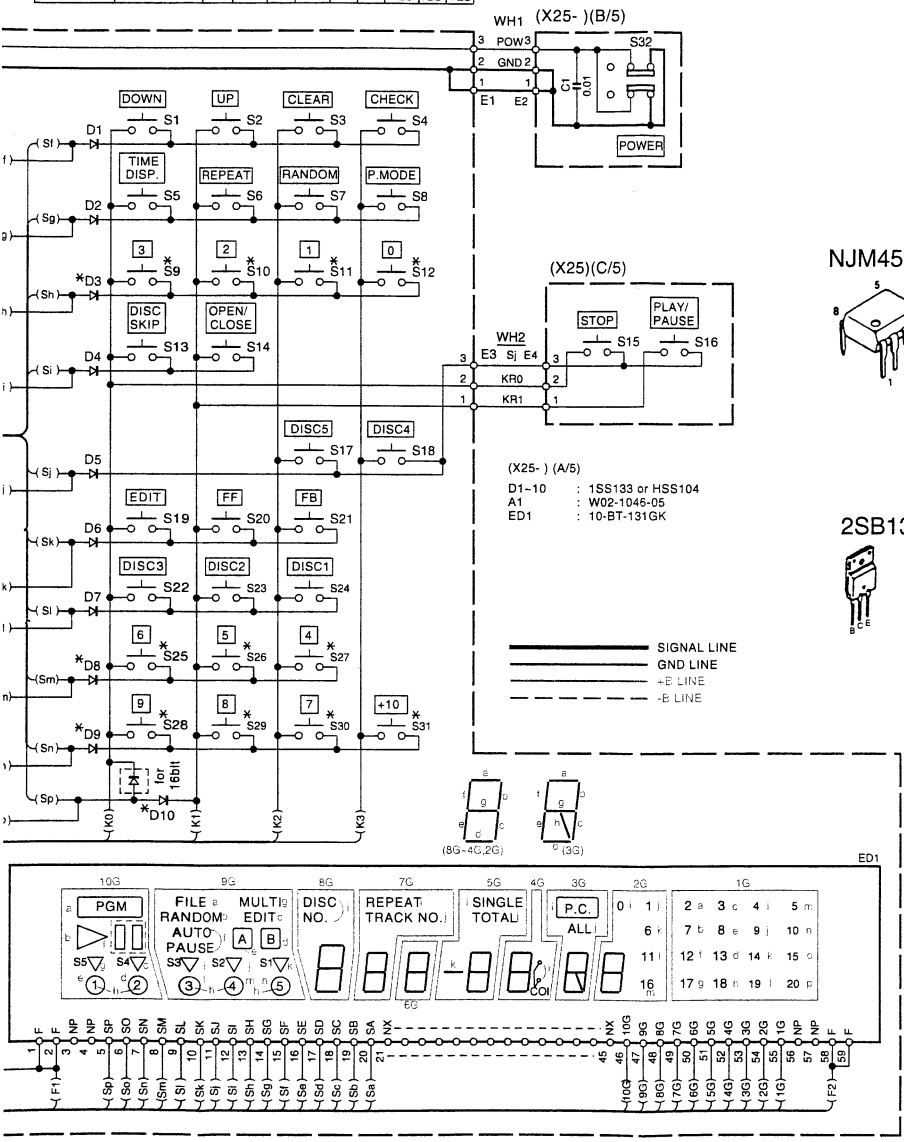
: CXA1782BQ*1	Q1	: 2SC2785(F,E) or 2SC1740S(Q,R)	D1~12,17~22 : 1SS133 or HSS104
: CXD2507AQ*1	Q2	: UN4112 or DTA124ES	D13 : KBP02ML-6127
: μPD78044AGF126	Q3,13	: 2SA954(L,K)	D14,23 : S5688B or 1SR139-100
: BA6198FP	Q4,5	: UN4219 or DTC113ZS	D15 : UZ-30BS or MTZJ30(B)
: TC9293AF	Q6	: UN4212 or DTC124ES	D16 : UZ-5.6BSB or MTZJ5.6(B)
: NJM2115M	Q7,8	: 2SC2878(B)	
: NJM4580E	Q9,10	: 2SA1309A(Q,R) or 2SA1048(Y,GR)	
: TA8409S	Q14	: 2SB1565(E,F) or 2SB1375	

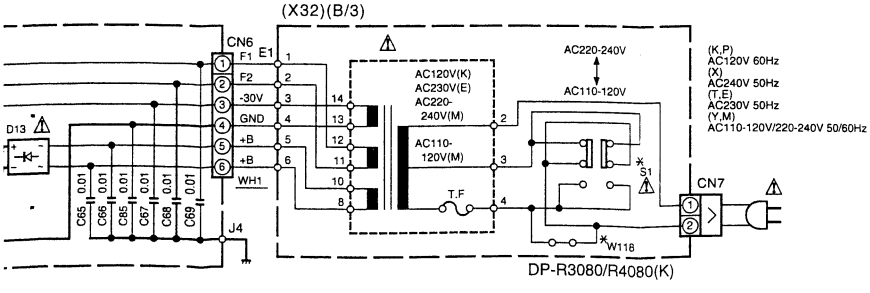
CAUTION: For continued safeiy, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

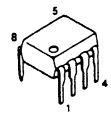
DP-R3080/R4080

MODEL NAME	UNIT No.	R1	C2,4	D3	D8,9	D10	S9~12	S25~31	A1	WH4
DP-R3080	X25-5700-10	YES	NO	NO	NO	YES	NO	NO	NO	NO
DP-R4080	X25-5700-11	NO	YES	YES	YES	NO	YES	YES	YES	YES

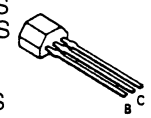




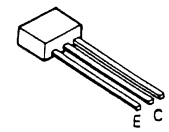
NJM4580E



DTA124ES
DTC124ES
UN4112
2SA1048
2SC1740S

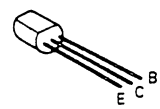


UN4212
UN4219
2SA1309A

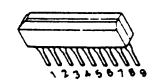


2SB1375

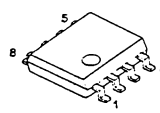
2SA954
2SC2878



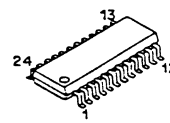
TA8409S



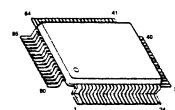
NJM2115M



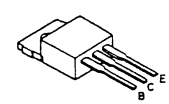
TC9293AF



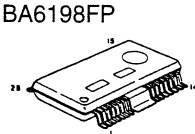
UPD78044AGF126



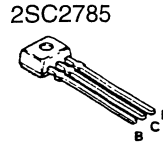
2SB1565



BA6198FP



2SC2785



Y22-4400-10

DP-R3080/R4080

KENWOOD

EXPLODED VIEW (MECHANISM)

Parts with the exploded numbers larger than 700 are not supplied.

DP-R3080/R408

EXPLODED VIEW (UNIT)

A	M3x8	: N09-1445-05 (K,P,Y only)
B	ϕ3x6(BLK)	: N09-1561-05
C	M3x6	: N35-3006-46
D	ϕ2.6x6	: N82-2606-46
E	ϕ3x8(BLK)	: N89-3008-45
F	ϕ3x8	: N89-3008-46
AE	ϕ3x10	: N89-3010-46
AL	ϕ3x10	: N09-3144-05
AM	ϕ3x8	: N89-3008-46
AN	WASHER	: N19-1352-04
AP	WASHER	: N19-1378-04

Parts with the exploded numbers larger than 700 are not supplied

∗ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
DP-R3080/R4080						
601	1D	∗	A01-3289-01	METALLIC CABINET		
603	2D	∗	A60-0837-01	PANEL	MXE	3
603	2D	∗	A60-0838-01	PANEL	YMXTE	4
603	2D	∗	A60-0852-01	PANEL	KPY	3
603	2D	∗	A60-0853-01	PANEL	KP	4
604	1C	∗	A70-1048-05	REMO-CON ASSY (RC-P0703)		4
605	1C		A09-0146-08	BATTERY COVER		4
610	2D	∗	B07-2294-02	ESCUTCHEON		
611	2D	∗	B10-2192-03	FRONT GLASS		
612	2D	∗	B11-0301-03	COLOR FILTER		
613	2D		B43-0302-04	KENWOOD BADGE		
-		∗	B46-0092-43	WARRANTY CARD	KY	
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	TE	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD (CAUTION UL)	KY	
-		∗	B58-0965-13	CAUTION CARD (TX TYPE PL)	XT	
-		∗	B58-0966-13	CAUTION CARD (ELM TYPE PL)	ME	
-		∗	B58-0967-03	CAUTION CARD (P TYPE PL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2436-00	INSTRUCTION MANUAL (EN)	KPYMXT	
-		∗	B60-2437-00	INSTRUCTION MANUAL (FR)	PE	
-		∗	B60-2438-00	INSTRUCTION MANUAL (G/D)	E	
-		∗	B60-2439-00	INSTRUCTION MANUAL (IT)	E	
-		∗	B60-2440-00	INSTRUCTION MANUAL (SP)	ME	
-		∗	B60-2441-00	INSTRUCTION MANUAL (C)	M	
-		∗	B60-2442-00	INSTRUCTION MANUAL (TAIWAN)	M	
615	2D		D14-0357-04	ROLLER		
⚠ 620	1C		E03-0115-05	AC PLUG ADAPTER	M	
621	1C		E30-0505-05	AUDIO CORD		
⚠ 622	1F		E30-2592-15	AC POWER CORD	ME	
⚠ 622	1F		E30-2605-05	AC POWER CORD	Y	
⚠ 622	1F		E30-2650-05	AC POWER CORD	KP	
⚠ 622	1F		E30-2717-05	AC POWER CORD	X	
⚠ 622	1F		E30-2721-05	AC POWER CORD	T	
623	1C		E30-2733-05	CORD WITH PLUG		
624	2E	∗	E35-1285-05	FLAT CABLE (37P/CN1-CN8)		
		∗	H50-1716-04	ITEM CARTON CASE (MALAYSIA)	KPXE	3
		∗	H50-1717-04	ITEM CARTON CASE (MALAYSIA)	M	3
		∗	H50-1718-04	ITEM CARTON CASE (MALAYSIA)	KPYXE	4
		∗	H50-1719-04	ITEM CARTON CASE (MALAYSIA)	M	4
		∗	H50-1720-04	ITEM CARTON CASE (MALAYSIA)	T	4
		∗	H50-1937-04	ITEM CARTON CASE (SINGAPORE)	KE	4
-		∗	H10-7120-12	POLYSTYRENE FOAMED FIXTURE (L)	KPYMXE	
-		∗	H10-7121-12	POLYSTYRENE FOAMED FIXTURE (R)	KPYMXE	
-		∗	H10-7122-12	POLYSTYRENE FOAMED FIXTURE (L)	T	
-		∗	H10-7123-12	POLYSTYRENE FOAMED FIXTURE (R)	T	
-			H12-2210-04	PACKING FIXTURE		

L : Scandinavia **K** : USA **P** : Canada **3** : DP-R3080
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **4** : DP-R4080
Y : AAFES(Europe) **X** : Australia **M** : Other Areas

⚠ indicates safety critical components.

∗ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-			H13-0152-14	CARTON BOARD	X	
-			H13-0163-04	CARTON BOARD	T	
-			H20-0568-04	PROTECTION COVER	M	
-			H21-0303-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0661-04	PROTECTION BAG	KPYXE	
630	3F		J02-1151-03	FOOT		
631	3E		J21-3326-05	JACK MOUNTING HARDWARE		4
⚠ 633	1F		J42-0083-05	POWER CORD BUSHING		
634	2D		J90-0811-04	GUIDE		
-			J61-0307-05	WIRE BAND	YMXTE	
640	2D	∗	K27-2178-04	KNOB (POWER)		
641	2D,2E	∗	K29-6286-02	KNOB		3
641	2D,2E	∗	K29-6287-02	KNOB		4
⚠ 645	2F	∗	L07-2137-05	POWER TRANSFORMER	KP	
⚠ 645	2F	∗	L07-2138-05	POWER TRANSFORMER	XTE	
⚠ 645	2F	∗	L07-2139-05	POWER TRANSFORMER	YM	
DISPLAY UNIT (X25-5700-XX)						
C1			CK45FF1H103Z	CERAMIC 0.010UF Z		
C2			CK45FF1H103Z	CERAMIC 0.010UF Z		4
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			CK45FF1H103Z	CERAMIC 0.010UF Z		4
CN1		∗	E40-4962-05	FLAT CABLE CONNECTOR (37P)		
CN2			E40-4187-05	FLAT CABLE CONNECTOR (7P)		
S1-8			S70-0031-05	TACT SWITCH		
S9-12			S70-0031-05	TACT SWITCH		4
S13 -24			S70-0031-05	TACT SWITCH		
S25 -31			S70-0031-05	TACT SWITCH		4
S32			S40-2351-05	PUSH SWITCH (POWER)		
PH1		∗	T95-0145-05	OPTO ISOLATOR		
D1,2			HSS104	DIODE		
D1,2			1SS133	DIODE		
D3			HSS104	DIODE		4
D3			1SS133	DIODE		4
D4-7			HSS104	DIODE		
D4-7			1SS133	DIODE		
D8,9			HSS104	DIODE		4
D8,9			1SS133	DIODE		4
D10			HSS104	DIODE		3
D10			1SS133	DIODE		3
D11			SIR-33ST3	INFRARED LED		
ED1			10-BT-131GK	INDICATOR TUBE		
PH2			RPT-38PT3F	PHOTO TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		4
CD PLAYER UNIT (X32-3090-XX)						
C1			CK73FB1H103K	CHIP C 0.010UF K		
C2			CK73FB1H472K	CHIP C 4700PF K		
C3			CK73EB1C474K	CHIP C 0.47UF K		
C4			CC73FSL1H470J	CHIP C 47PF J		
C5			CE04LW1A101M	ELECTRO 100UF 10WV		

L : Scandinavia **K** : USA **P** : Canada **3** : DP-R3080
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **4** : DP-R4080
Y : AAFES(Europe) **X** : Australia **M** : Other Areas

⚠ indicates safety critical components.

* New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

3

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C6			CK73EB1C474K	CHIP C	0.47UF	K		
C7,8			CK73FB1E104K	CHIP C	0.10UF	K		
C9			CK73FB1H473K	CHIP C	0.047UF	K		
C10			CC73FSL1H221J	CHIP C	220PF	J		
C11			CK73FB1H102K	CHIP C	1000PF	K		
C12			CE04LW1C100M	ELECTRO	10UF	16WV		
C13			CK73FB1H333K	CHIP C	0.033UF	K		
C14			CK73FB1H103K	CHIP C	0.010UF	K		
C15			CC73FSL1H151J	CHIP C	150PF	J		
C16			CE04HW1E100M	NP-ELEC	10UF	25WV		
C17 -19			CK73FB1H103K	CHIP C	0.010UF	K		
C20			CK73FB1H333K	CHIP C	0.033UF	K		
C21			CK73FB1H103K	CHIP C	0.010UF	K		
C22			CK73FB1H222K	CHIP C	2200PF	K		
C23			CK73FB1H103K	CHIP C	0.010UF	K		
C25			CC73FSL1H680J	CHIP C	68PF	J		
C26			CE04LW1A101M	ELECTRO	100UF	10WV		
C27			CE04LW0J331M	ELECTRO	330UF	6.3WV		
C28			CK73FB1H333K	CHIP C	0.033UF	K		
C29			CK73FB1H473K	CHIP C	0.047UF	K		
C30			CK73FB1H152K	CHIP C	1500PF	K		
C31			CK73FB1H103K	CHIP C	0.010UF	K		
C32			CK73FB1H332K	CHIP C	3300PF	K		
C33			CK73EB1C474K	CHIP C	0.47UF	K		
C34 ,35			CK73FB1H102K	CHIP C	1000PF	K		
C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37			CE04LW0J331M	ELECTRO	330UF	6.3WV		
C38			CK73FB1H103K	CHIP C	0.010UF	K		
C39			CE04LW0J331M	ELECTRO	330UF	6.3WV		
C40 ,41			CK73FB1E104K	CHIP C	0.10UF	K		
C42			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C43			CK73FB1H223K	CHIP C	0.022UF	K		
C44			CC73FSL1H220J	CHIP C	22PF	J		
C45 ,46			CE04LW1A101M	ELECTRO	100UF	10WV		
C47 ,48			CQ93FMG1H102J	MYLAR	1000PF	J		
C49 ,50			CQ93FMG1H821J	MYLAR	820PF	J		
C51 ,52			CE04LW1C100M	ELECTRO	10UF	16WV		
C53 ,54			CC73FSL1H821J	CHIP C	820PF	J		
C55			CE04LW1C470M	ELECTRO	47UF	16WV		4
C56			CK73FB1H103K	CHIP C	0.010UF	K		
C57 ,58			CK73FB1H103K	CHIP C	0.010UF	K		4
C59 ,60			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		4
C61 ,62			CE04LW0J221M	ELECTRO	220UF	6.3WV		4
C63 ,64			CK73FB1H103K	CHIP C	0.010UF	K		4
C65 -69			CK73FB1H103K	CHIP C	0.010UF	K		
C70			CE04LW1C222M	ELECTRO	2200UF	16WV		
C71			CE04LW1H101M	ELECTRO	100UF	50WV		
C72			CK73FB1H103K	CHIP C	0.010UF	K		
C73			CE04LW1H100M	ELECTRO	10UF	50WV		
C74			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C75			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C76			CK73FB1H473K	CHIP C	0.047UF	K		
C77 ,78			CC73FSL1H221J	CHIP C	220PF	J		
C79			CK73FB1H103K	CHIP C	0.010UF	K		
C80			CC73FSL1H470J	CHIP C	47PF	J		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C81			CK73FB1H103K	CHIP C	0.010UF	K		
C82 ,83			CC73FSL1H821J	CHIP C	820PF	J		4
C84 ,85			CK73FB1H103K	CHIP C	0.010UF	K		
C86			CE04LW1A101M	ELECTRO	100UF	10WV		
C87			CK73FB1H103K	CHIP C	0.010UF	K		4
C88			CK73FB1E104K	CHIP C	0.10UF	K		
C89			CK73FB1H103K	CHIP C	0.010UF	K		4
CN1			E40-4856-05	FLAT CABLE CONNECTOR (16P)				
CN2			E40-4876-05	PIN ASSY (7P)				
CN3			E40-3250-05	PIN ASSY (6P)				
CN4			E40-3252-05	PIN ASSY (8P)				
CN5			E40-4187-05	FLAT CABLE CONNECTOR (7P)				
CN6			E40-4296-05	FLAT CABLE CONNECTOR (6P)				
CN7			E40-4245-05	PIN ASSY (2P)				
CN8		*	E40-4924-05	FLAT CABLE CONNECTOR (37P)				
J1			E63-0122-05	PHONO JACK (2P/LINE OUTPUT)				
J2			E11-0188-05	MINIATURE PHONE JACK(2P/S.CON)				
J3			E11-0127-05	PHONE JACK	(PHONES)			4
E4-6			J11-0808-05	WIRE CLAMPER				
E7			J11-0808-05	WIRE CLAMPER				4
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
X1			L78-0299-05	RESONATOR	(16.93M)			
R1-5			RK73FB2A473J	CHIP R	47K	J 1/10W		
R6			RK73FB2A104J	CHIP R	100K	J 1/10W		
R7			RK73FB2A912J	CHIP R	9.1K	J 1/10W		
R8			RK73FB2A623J	CHIP R	62K	J 1/10W		
R9			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R10			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R11			RK73FB2A224J	CHIP R	220K	J 1/10W		
R12			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R13			RK73FB2A101J	CHIP R	100	J 1/10W		
R14 ,15			RK73FB2A334J	CHIP R	330K	J 1/10W		
R16			RK73FB2A473J	CHIP R	47K	J 1/10W		
R17 ,18			RK73FB2A512J	CHIP R	5.1K	J 1/10W		
R19			RK73FB2A101J	CHIP R	100	J 1/10W		
R20			RK73FB2A333J	CHIP R	33K	J 1/10W		
R21			RK73FB2A104J	CHIP R	100K	J 1/10W		
R22			RK73FB2A562J	CHIP R	5.6K	J 1/10W		
R23			RK73FB2A752J	CHIP R	7.5K	J 1/10W		
R24 ,25			RK73FB2A104J	CHIP R	100K	J 1/10W		
R26			RK73FB2A103J	CHIP R	10K	J 1/10W		
R27			RK73FB2A684J	CHIP R	680K	J 1/10W		
R28			RK73FB2A114J	CHIP R	110K	J 1/10W		
R29			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R30			RK73FB2A114J	CHIP R	110K	J 1/10W		
R31			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R32			RK73FB2A514J	CHIP R	510K	J 1/10W		
R33			RK73FB2A563J	CHIP R	56K	J 1/10W		
R34			RK73FB2A104J	CHIP R	100K	J 1/10W		
R35			RK73FB2A223J	CHIP R	22K	J 1/10W		
R36			RK73FB2A912J	CHIP R	9.1K	J 1/10W		
R37			RK73FB2A104J	CHIP R	100K	J 1/10W		

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R38			RK73FB2A244J	CHIP R	240K	J	1/10W		
R39			RK73FB2A152J	CHIP R	1.5K	J	1/10W		
R40			RK73FB2A752J	CHIP R	7.5K	J	1/10W		
R41			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R42			RK73FB2A100J	CHIP R	10	J	1/10W		
R43 ,44			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R45			RK73FB2A103J	CHIP R	10K	J	1/10W		
R46			RK73FB2A154J	CHIP R	150K	J	1/10W		
R47			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R48			RK73FB2A103J	CHIP R	10K	J	1/10W		
R49			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R50			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R51			RK73FB2A104J	CHIP R	100K	J	1/10W		
R52 -54			RK73FB2A471J	CHIP R	470	J	1/10W		
R55			RK73FB2A104J	CHIP R	100K	J	1/10W		
R56			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R57			RK73FB2A473J	CHIP R	47K	J	1/10W		
R58 -61			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R62 -66			RK73FB2A473J	CHIP R	47K	J	1/10W		
R67 -71			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R72			RK73FB2A473J	CHIP R	47K	J	1/10W		
R73			RK73FB2A104J	CHIP R	100K	J	1/10W		
R74 ,75			RK73FB2A473J	CHIP R	47K	J	1/10W		
R76 ,77			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R78 -81			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84 -86			RK73FB2A103J	CHIP R	10K	J	1/10W		
R87			RK73FB2A752J	CHIP R	7.5K	J	1/10W		
R88			RK73FB2A123J	CHIP R	12K	J	1/10W		
R89 ,90			RK73FB2A181J	CHIP R	180	J	1/10W		
R91			RK73FB2A220J	CHIP R	22	J	1/10W		
R92			RK73FB2A471J	CHIP R	470	J	1/10W		
R93 ,94			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R95 ,96			RK73FB2A752J	CHIP R	7.5K	J	1/10W		
R97 ,98			RK73FB2A153J	CHIP R	15K	J	1/10W		
R99 ,100			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R101,102			RK73FB2A103J	CHIP R	10K	J	1/10W		
R103,104			RK73FB2A681J	CHIP R	680	J	1/10W		
R105,106			RK73FB2A104J	CHIP R	100K	J	1/10W		
R107,108			RK73FB2A331J	CHIP R	330	J	1/10W		
R109,110			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R111,112			RK73FB2A223J	CHIP R	22K	J	1/10W		
R113			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R114			RK73FB2A271J	CHIP R	270	J	1/10W		
R115,116			RK73FB2A393J	CHIP R	39K	J	1/10W		4
R117,118			RK73FB2A473J	CHIP R	47K	J	1/10W		4
R119-122			RK73FB2A100J	CHIP R	10	J	1/10W		4
R123,124			RK73FB2A102J	CHIP R	1.0K	J	1/10W		4
R125,126			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R127			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R128			RK73FB2A103J	CHIP R	10K	J	1/10W		
R129,130			RK73FB2A101J	CHIP R	100	J	1/10W		
⚠ R131			RK73FB2A5R6J	CHIP R	5.6	J	1/10W		
⚠ R132			RS14KB3D151J	FL-PROOF RS	150	J	2W		
R133,134			RK73FB2A331J	CHIP R	330	J	1/10W		
R135-138			RK73FB2A104J	CHIP R	100K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R139,140			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R141			RK73FB2A3R9J	CHIP R	3.9	J	1/10W		
R142			RS14KB3A101J	FL-PROOF RS	100	J	1W		
R143,144			RK73FB2A474J	CHIP R	470K	J	1/10W		4
R145			RK73FB2A100J	CHIP R	10	J	1/10W		
VR1			R12-1619-05	TRIMMING POT.(4.7K/FE-BIAS)					
VR2			R12-5651-05	TRIMMING POT.(100K/TE-BALANCE)					
VR3			R12-3688-05	TRIMMING POT.(47K/T-GAIN)					
W114-116			R92-0670-05	CHIP R	0 OHM				
⚠ S1			S31-2131-05	SLIDE SWITCH (AC VOLTAGE SEL)				YM	
D1-10			HSS104	DIODE					
D1-10			1SS133	DIODE					
D11 ,12			HSS104	DIODE					4
D11 ,12			1SS133	DIODE					4
⚠ D13			KBP02ML-6127	DIODE					
⚠ D14			S5688B	DIODE					
⚠ D14			1SR139-100	DIODE					
D15			MTZJ30(B)	ZENER DIODE					
D15			UZ-30BS	ZENER DIODE					
D16			MTZJ5.6(B)	ZENER DIODE					
D16			UZ-5.6BSB	ZENER DIODE					
D17 -22			HSS104	DIODE					
D17 -22			1SS133	DIODE					
⚠ D23			S5688B	DIODE					
⚠ D23			1SR139-100	DIODE					
IC1		∗	CXA1782BQ ∗1	ANALOGUE IC					
IC2		∗	CXD2507AQ ∗1	MOS-IC					
IC3		∗	UPD78044AGF126	MI-COM IC					
IC4			BA6198FP	ANALOGUE IC					
IC5		∗	TC9293AF	MOS-IC					
IC6		∗	NJM2115M	ANALOGUE IC					
IC7			NJM4580E	ANALOGUE IC					4
IC8 ,9			TA8409S	IC(MOTOR CONTROL)					
Q1			2SC1740S(Q,R)	TRANSISTOR					
Q1			2SC2785(F,E)	TRANSISTOR					
Q2			DTA124ES	DIGITAL TRANSISTOR					
Q2			UN4112	TRANSISTOR					
Q3			2SA954(L,K)	TRANSISTOR					
Q4,5			DTC113ZS	DIGITAL TRANSISTOR					
Q4,5			UN4219	TRANSISTOR					
Q6			DTC124ES	DIGITAL TRANSISTOR					
Q6			UN4212	TRANSISTOR					
Q7,8			2SC2878(B)	TRANSISTOR					
Q9,10			2SA1048(Y,GR)	TRANSISTOR					
Q9,10			2SA1309A(Q,R)	TRANSISTOR					
⚠ Q13			2SA954(L,K)	TRANSISTOR					
⚠ Q14			2SB1375	TRANSISTOR					
⚠ Q14			2SB1565(E,F)	TRANSISTOR					

MECHANISM (X92-1930-10/X92-1960-61)

1	3B		A10-3121-42	CHASSIS ASSY					
2	1A	∗	A11-1048-12	SUB CHASSIS					
3	1A	∗	A11-1017-22	SUB CHASSIS					
DM	2B	∗	T42-0839-08	DISC MOTOR ASSY					

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
5	2B		B09-0250-04	CAP		
7	2A		D10-3439-13	ARM		
8	2B		D10-3438-12	SLIDER		
9	1A		D13-1577-14	GEAR		
10	2A		D13-1578-04	GEAR		
11	2A		D13-1579-04	GEAR		
12	3D		D13-1682-04	WORM		
13	2C		D13-1581-04	GEAR		
14	2C,2F		D14-0357-04	ROLLER		
16	3A		D15-0359-04	PULLEY		
17	1A		D16-0355-03	BELT		
18	2A	*	D21-1763-14	SHAFT		
19	2B		D10-3619-08	GUIDE SHAFT		
20	1B		D13-1729-08	GEAR (DRIVE)		
21	1B		D13-1728-08	GEAR (MIDDLE)		
25	3D		E35-0747-25	FLAT CABLE (7P)		
26	1B	*	E35-1317-05	FLAT CABLE (16P)		
29	2B	*	E35-1318-05	WIRING HARNESS (6P)		
35	2C		G01-3630-14	COMPRESSION SPRING		
36	2B		G01-3753-04	COMPRESSION SPRING		
37	2B		G01-3754-04	COMPRESSION SPRING		
38	3A		G02-1049-04	FLAT SPRING		
39	3D		G09-0634-04	WIRE SPRING		
40	2A		G01-3697-24	EXTENSION SPRING		
41	2C		G02-1065-04	FLAT SPRING		
43	2B		J02-1121-04	INSULATOR		
44	1A		J11-0198-03	CLAMPER		
45	3D		J19-3634-04	HOLDER		
46	2A		J90-0811-04	GUIDE		
47	2F		J90-0810-22	GUIDE		
48	3C	*	J99-0579-01	TRAY		
49	2C		J99-0547-01	TRAY		
AK		*	N19-1417-08	FLAT WASHER		
55	2A,3A		S33-2061-05	LEVER SWITCH		
56	2B		S74-0054-08	LEAF SWITCH		
63	1A		T50-1055-04	YOKE		
64	1A		T99-0544-15	MAGNET		
FM	2B	*	T42-0840-08	FEED MOTOR ASSY		
LM	3A		T42-0524-05	DC MOTOR		
PU	1B	*	T25-0048-05	PICKUP		
RM	3D	*	T42-0828-05	DC MOTOR		

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DP-R3080/R4080

SPECIFICATIONS

[Format]

System ..... Compact disc digital audio system
Laser .....Semiconductor laser

[D/A convertors]

D/A conversion ..... 1 Bit
Oversampling ..... 8 fs (352.8 kHz)

[Audio]

Frequency response ..... 4 Hz ~ 20 kHz, ± 1.0 dB
Signal to noise ratio ..... More than 96 dB
Dynamic range ..... More than 94 dB
Total harmonic distortion + noise
..... Less than 0.007 % (at 1kHz)
Channel separation ..... More than 90 dB (at 1 kHz)
Wow flutter ..... Unmeasurable limit
Output level / impedance
Fixed ..... 2.0 V / 1.0 kΩ
Headphone output (max.) ..... 20 mW / 32 Ω
(DP-R4080 only)

[General]

Power consumption .....10 W
Dimensions ..... W : 440 mm (17-5/16")
H : 123 mm (4-13/16")
D : 396 mm (15-9/16")
Weight (Net) ..... 4.9 kg (10.8 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION
14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION
P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED
KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.
Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker Str. 15, 63150 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.
13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001499 074)
P.O Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD.
No. 1 Genting Lane # 07-00, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
10th Floor, Block B, Wisma Semantan, No. 12 Janlan Gelenggang, Bukit Damansara, 50490 Kuala Lumpur, Malaysia